

## CLAIMS

What is claimed is:

1. A method for actively providing users with the message of a  
5 new mail by an electronic mail provider, said method comprising:

creating an identification information of said new mail as  
detecting the appearance of said new mail;

transforming said identification information into a transmission  
signal; and

10 transferring said transmission signal to a receiving terminal.

2. The method according to claim 1 further comprising  
automatically sending said receiving terminal said identification  
information of said new mail as soon as receiving a response from said  
15 receiving terminal.

3. The method according to claim 1 further comprising  
suspending a connection between said electronic mail provider and said  
receiving terminal by detecting a first deadline of establishing said  
20 connection.

4. The method according to claim 1 further comprising re-  
establishing said connection and thereafter transferring said  
transmission signal after waiting a second deadline.

5. The method according to claim 1 further comprising said  
users receiving said new mail from said electronic mail provider through  
a telecommunication network as soon as said users receiving said

identification information.

6. The method according to claim 1, wherein said electronic mail provider transfers said transmission signal during a specific period.

5 7. The method according to claim 1, wherein said transmission signal further comprises advertisement information of said electronic mail provider.

10 8. The method according to claim 1, wherein said electronic mail provider transforms said identification information into said transmission signal and transfers said transmission signal by using an identification communication protocol for a caller terminal.

15 9. The method according to claim 1, wherein said identification information comprises a message subject for said new mail.

20 10. The method according to claim 1, wherein said identification information comprises a receiving date and a receiving time.

25 11. The method according to claim 1, wherein said identification information comprises an electronic mail address of a sender.

12. The method according to claim 1, wherein said identification information comprises a name of said sender.

13. The method according to claim 1, wherein said identification information comprises a distinctive code.

14. The method according to claim 13, wherein said distinctive  
5 code comprises a telephone number of said electronic mail provider.

15. The method according to claim 1, wherein said transmission signal is in a frequency shift key format.

10 16. The method according to claim 1, wherein said transmission signal is in a dual-tone multi-frequency format.

15 17. The method according to claim 1, wherein said transmission signal is in a universal asynchronous receive and transmission format.

18. The method according to claim 1 further comprising a filtering step prior to transferring said transmission signal, said filtering step is used for suspending said transmission signal corresponding with a plurality of set deletion conditions for said new  
20 mail.

19. The method according to claim 1 further comprising a filtering step prior to transferring said transmission signal, said filtering step is used for transferring said transmission signal corresponding with  
25 a plurality of set permission conditions for said new mail.

20. A method for users to obtain a message from a new electronic mail, said method comprising:

receiving a transmission signal actively transferred from an electronic mail provider through a receiving terminal; and

transforming said transmission signal into an identification information, said identification information is related to said new electronic mail that is not yet received or read by said users.

21. The method according to claim 20 further comprising automatically transferring a response from said receiving terminal to said electronic mail provider after receiving said transmission signal, and said step of automatically transferring used for requesting said electronic mail provider to automatically transfer said identification information to said receiving terminal.

22. The method according to claim 20 further comprising displaying said identification information for notifying said users.

23. The method according to claim 20 further comprising receiving said electronic mail from said electronic mail provider through a telecommunication network after reading said identification information by said users.

24. The method according to claim 20, wherein said identification information comprises a message subject for said electronic mail.

25. The method according to claim 20, wherein said identification information comprises a receiving date and a receiving time.

26. The method according to claim 20, wherein said identification information comprises an electronic mail address of a sender.

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27. The method according to claim 20, wherein said identification information comprises a name of a sender.

28. The method according to claim 20, wherein said  
10 identification information comprises a distinctive code.

29. The method according to claim 28, wherein said distinctive code comprises a telephone number of said electronic mail provider.

30. The method according to claim 20, wherein said  
15 transmission signal is in a frequency shift key format.

31. The method according to claim 20, wherein said  
20 transmission signal is in a dual-tone multi-frequency format.

32. The method according to claim 20, wherein said transmission signal is in a universal asynchronous receiving and transferring format.

33. The method according to claim 20, wherein said receiving  
25 terminal comprises an electronic mail identification phone.

34. The method according to claim 20, wherein said receiving

terminal comprises an electronic mail identification assistant device.

35. The method according to claim 20, wherein said receiving terminal comprises a caller identification phone that has electronic mail identification function.

36. The method according to claim 20, wherein said receiving terminal comprises a caller identification assistant device that has electronic identification function.

37. The method according to claim 20 further comprising a filtering step prior to transferring said transmission signal, said filtering step is used for suspending said transmission signal corresponding with a plurality of set deletion conditions.

38. The method according to claim 20 further comprising a filtering step prior to transferring said transmission signal, said filtering step is used for transferring said transmission signal corresponding with a plurality of set permission conditions.

39. The method according to claim 20 further comprising a switch device for controlling operation of said receiving terminal, said receiving terminal receiving said transmission signal when said switch device is in a on state, and said receiving terminal stopping receiving said transmission signal when said switch device is in an off state.

40. A system for a electronic mail provider to actively transferring an identification information of an electronic mail, said

system comprising:

modulating means for transforming said identification information into a transmission signal; and

transferring means for transferring said transmission signal to a receiving terminal of a user.

41. The system of claim 40 further comprising a mail server which is set in said electronic mail provider, wherein said mail server is used for receiving and transferring said electronic mails.

42. The system of claim 40, wherein said electronic mail provider transforms said identification information into said transmission and transfers said transmission signal by utilizing an communication protocol of identification service by a caller terminal.

43. The system of claim 40, wherein said electronic mail provider transfers said transmission signal during a specific period.

44. The system of claim 40, wherein said identification information comprises a message subject of said electronic mail.

45. The system of claim 40, wherein said identification information comprises a date and a time.

46. The system of claim 40, wherein said identification information comprises a sender's electronic mail address.

47. The system of claim 40, wherein said identification

information comprises a sender's name.

48. The system of claim 40, wherein said identification information comprises a distinctive code.

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49. The system of claim 48, wherein said distinctive code comprises a telephone number of said electronic mail provider.

50. The system of claim 40 further comprising a filtering device for suspending said transmission signal corresponding with a plurality of set deletion conditions prior to transferring said transmission signal.

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51. The method of claim 40 further comprising a filtering device for transferring said transmission signal corresponding with a plurality of set permission conditions prior to transferring said transmission signal.

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52. A system for assisting a user to obtain a message of a new electronic mail, said system comprising:

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receiving means for receiving a transmission signals which is transferred from an electronic mail provider;

analyzing means for transforming said transmission signals into an identification information of said electronic mail; and

displaying means for displaying said identification information.

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53. The system of claim 52 further comprising a storage device for storing said identification information.



54. The system of claim 52, wherein said electronic mail provider translates said identification information and transfers said transmission signal by utilizing a communication protocol of an identification by a caller terminal.

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55. The system of claim 52, wherein said identification information comprises a message subject of said electronic mail.

56. The system of claim 52, wherein said identification information comprises a date and a time.

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57. The system of claim 52, wherein said identification information comprises a sender's electronic mail address.

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58. The system of claim 52, wherein said identification information comprises a sender's name.

59. The system of claim 52, wherein said identification information comprises a distinctive code.

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60. The system of claim 59, wherein said distinctive code comprises a telephone number of said electronic mail provider.

61. The system according to claim 52, wherein said receiving terminal comprises an electronic mail identification phone.

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62. The system of claim 52, wherein said receiving terminal comprises an electronic mail identification assistant device.

63. The system of claim 52, wherein said receiving terminal an identification phone of a caller terminal which has electronic mail identification function.

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64. The system of claim 52, wherein said receiving comprises a identification assistant device of a caller terminal that has electronic identification function.

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65. The system of claim 52, wherein said displaying means comprises a displaying plane.

66. The system of claim 52, wherein said displaying means comprises an audio broadcasting device.

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67. The system of claim 52 further comprising a filtering device for suspending said transmission signal corresponding with a plurality of set deletion conditions prior to transferring said transmission signal.

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68. The method of claim 52 further comprising a filtering device for transferring said transmission signal corresponding with a plurality of set permission conditions prior to transferring said transmission signal.

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69. The system of claim 52 further comprising a switch device for controlling operation of said receiving terminal, and said receiving terminal receiving said transmission signal when said switch device is on and stopping receiving said transmission signal when said switch

device is off.

70. The system of claim 52 further comprising a connecting device for connecting said receiving terminal and said electronic mail provider when said transmission signal is received.

71. A method for transferring an identification information of an electronic mail, said method comprising:

transferring said identification information from an electronic mail provider to an receiving terminal which is predetermined by a corresponding user of said electronic mail;

transferring an identification information of said electronic mail to said receiving terminal when a response message from said receiving terminal is received within a predetermined period; and

suspending a connection between said electronic mail provider and said receiving terminal when no said response message is received within said predetermined period.

72. The method according to claim 71 further comprising a step of reestablishing said connection between said electronic mail provider and said receiving terminal after suspending said connection and thereafter waiting a standby period.

73. The method according to claim 71 further comprising said user connecting to said electronic mail provider for getting said electronic mail after receiving said identification information.

74. The method according to claim 71 further comprising a step

of storing said identification information on said receiving terminal for displaying when said user queries.

75. The method according to claim 71, wherein said electronic  
5 mail provider transfers said transmission signal during a specific period.

76. The method according to claim 71, wherein said  
identification information comprises a message subject of said electronic  
mail.

77. The method according to claim 71, wherein said  
identification information comprises a date and a time.

78. The method according to claim 71, wherein said  
15 identification information comprises a sender's electronic mail address.

79. The method according to claim 71, wherein said  
identification information comprises a sender's name.

80. The method according to claim 71, wherein said  
20 identification information comprises a distinctive code.

81. The method according to claim 80, wherein said distinctive  
code comprises a telephone number of said electronic mail provider.

82. The method according to claim 71, wherein hardware of said  
25 receiving terminal has a caller identification function.

83. The method according to claim 71, wherein said receiving terminal further comprises a connecting device for establishing a connection between said receiving terminal and said electronic mail provider.